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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/617,699	07/14/2003	Shuqing Cui	87359.1501	3710
7590 06/06/2005			EXAMINER	
Baker & Hostetler LLP			BOLES, DEREK	
Suite 1100 Washington Squ	uore		ART UNIT	PAPER NUMBER
1050 Connecticut Avenue, N.W.			3749	
Washington, DC 20036			DATE MAILED: 06/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	M	
	Application No.	Applicant(s)
	10/617,699	CUI ET AL.
Office Action Summary	Examiner	Art Unit
	Derek S. Boles	3749
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	n the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep or within the statutory minimum of thirty will apply and will expire SIX (6) MONT or cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on <u>21 M</u> 2a) This action is FINAL . 2b) ☐ This	arch 2005. action is non-final.	
Since this application is in condition for allowar closed in accordance with the practice under E	nce except for formal matte	
Disposition of Claims		
4) ⊠ Claim(s) 15-20 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 15-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on 14 July 2003 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	☑ accepted or b)☐ object drawing(s) be held in abeyand ion is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Ap rity documents have been i u (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/21/05.	Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 15 and 17-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Dillman (2,813,683). See fig. 1 and col. 4, lines 3-36.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim(s) 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dillman in view of Harris (5,233,970). Dillman discloses all of the limitations of the claim(s) except for detecting a temperature associated with the second fluid leaving the heat exchanger directing the first fluid back through the heat exchanger when the controller detects the temperature of the second fluid leaving the heat exchanger is below a predetermined level. Harris discloses the presence of detecting a temperature associated with the second fluid leaving the heat exchanger directing the first fluid back through the heat exchanger when the controller detects the temperature of the second fluid leaving the heat exchanger is below a predetermined level. See

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col. 8, lines 18-33. Hence, one skilled in the art would find it obvious to modify the system of Dillman to include the detecting a temperature associated with the second fluid leaving the heat exchanger directing the first fluid back through the heat exchanger when the controller detects the temperature of the second fluid leaving the heat exchanger is below a predetermined level of Harris for the purpose of a reduction of boiler cycling.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The provided references are representative of the state of the art that is applicable to the applicant's invention. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Derek S. Boles at (571) 272-4872.

D.S.B.

DEREK'S, BOLES
PRIMARY EXAMINER
GROUP 3700

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4/16/05